

## Product datasheet for TP311417M

### OPA1 (NM\_130832) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human optic atrophy 1 (autosomal dominant) (OPA1), nuclear gene encoding mitochondrial protein, transcript variant 3, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC211417 representing NM_130832 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MWRLRRAAVACEVCQSLVKHSSGIKGSPLQKLHLVSRSIYHSHHPTLKLQRPQLRTSFQQFSSLTNLPL  
RKLKFSPIKYGYQPRRNFWPARLATRLLKRLYLILGSVGGGYTAKKTFDQWKDMIPDLSEYKWIVPDIV  
WEIDEYIDFGHKLKLVSEVIGASDLLLLGSPPEATAFRATDRGSESDKHFRKVSDEKIDQLQEELLHTQLK  
YQRILERLEKENKELRKLVLQKDDKGIHHRKLLKSLIDMYSEVLDVLSYDASYNTQDHLPRVVVVGDS  
AGKTSVLEMIAQARIFPRGSGEMMTRSPVKVTLSEGPLHVALFKDSSREFDLTKEEDLAALRHEIELRMR  
KNVKEGCTVSPETISLNVKGPGLQRMVLDLPGVINTVTSGMADTKETIFSISKAYMQNPNAIILCIQD  
GSVDAERSIVTDLVSQMDPHGRRITIFVLTKVDLAEKNVASPSRIQQIIEGKLFPMKALGYFAVVTGKGN  
SESIEAIREYEEFFQNSKLLKTSMLKAHQVTRNLSLAVSDCFWKMVRESVEQQADSFKATRFNLETEW  
KNNYPRLRELDLRFKAKNEILDEVISLSQVTPKHWEELQQSLWERVSTHVIENIYLPAAQTMNSGT  
FNNTVDIKLKQWTDKQLPNKAVEVAWETLQEEFSRFMTEPKGKEHDDIFDKLKEAVKEESIKRHKWDF  
EDSLRVIQHNALEDRSISDKQQWDAIYFMEEALQARLKDTEAENMVGPDWKKRWLYWKNRTQEQC  
NETKNELEKMLKCNEEHPAYLASDEITVRKNLESRGVEVDPSLIKDTWHQVYRRHFLKTAALNHCNLCRR  
GFYYYQRHFVDSELECNDVFLFWRIQRMLAITANTLRQQLTNTTEVRRLEKNVKEVLEDAEDGEGKIKLL  
TGKRVQLAEDLKKVREIQEKLDAFIEALHQEK

**SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV**

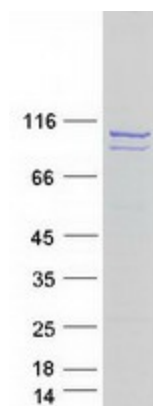
Tag:	C-Myc/DDK
Predicted MW:	109.2 kDa
Concentration:	>0.1 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_570845</a>
<b>Locus ID:</b>	4976
<b>UniProt ID:</b>	<a href="#">E5KLK0</a>
<b>RefSeq Size:</b>	6291
<b>Cytogenetics:</b>	3q29
<b>RefSeq ORF:</b>	2826
<b>Synonyms:</b>	BERHS; largeG; MGM1; MTDPS14; NPG; NTG
<b>Summary:</b>	The protein encoded by this gene is a nuclear-encoded mitochondrial protein with similarity to dynamin-related GTPases. The encoded protein localizes to the inner mitochondrial membrane and helps regulate mitochondrial stability and energy output. This protein also sequesters cytochrome c. Mutations in this gene have been associated with optic atrophy type 1, which is a dominantly inherited optic neuropathy resulting in progressive loss of visual acuity, leading in many cases to legal blindness. [provided by RefSeq, Aug 2017]

### Product images:



Coomassie blue staining of purified OPA1 protein (Cat# [TP311417]). The protein was produced from HEK293T cells transfected with OPA1 cDNA clone (Cat# [RC211417]) using MegaTran 2.0 (Cat# [TT210002]).